

Notice of Allowability

Application No.

10/826,463

Examiner

Linh V. Nguyen

Applicant(s)

NAIRN, DAVID G.

Art Unit

2819

-- **Th MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/16/04.
2. ☒ The allowed claim(s) is/are 1-43.
3. ☒ The drawings filed on 16 April 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 05/10/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Jean Bruner Jeandlaude
JEAN JEANGLAUDE
PRIMARY EXAMINER

DETAILED ACTION

This office action is in response to application No. 10/826463 filed on 04/16/2004. Claims 1 – 43 are pending on this application.

Allowable Subject Matter

1. Claims 1 - 43 are allowed.
2. The following is an examiner's statement of reasons for allowance:

With respect to claim 1, in addition to other elements in the claim, the prior art does not teach a signal conditioning system, comprising: a random clock configured to decorrelate an input signal provided to the first converter from the random clock so that the average output signal of the first converter is proportional to a first offset

With respect to claim 10, in addition to other elements in the claim, the prior art does not teach an integrated circuit having plurality of converter circuits clocked by a random clock, and an offset sensing circuit configured to sense signal offsets and/or signal offset differentials between the outputs of the plurality of converter circuits.

With respect to claim 19, in addition to other elements in the claim, the prior art does not teach a method of adjusting an offset signal comprising: clocking a first converter with a random clock; and conditioning one of an input signal and an output signal of the first converter with the first offset signal.

With respect to claim 25, the prior art does not teach a signal conditioning system, comprising: a first converter a second converter, the first and second

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converters being clocked in a random sequence; and a gain corrector configured to adjust a difference between the first and second gains of the converters.

With respect to claim 32, in addition to other elements in the claim, the prior art does not teach an integrated circuit comprising: a plurality of converter circuits clocked by a random clock; each gain sensors circuit being coupled to one of the plurality of converter circuits; and a controller circuit configured to select the plurality of converter circuits in a random sequence.

With respect to claim 41, in addition to other elements in the claim, the prior art does not a method for adjust mismatching condition comprising: first and second converters being clocked with a random clock; and adjusting at least one of the first and second gains to adjust the gain mismatch between the first and second converters.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh Van Nguyen whose telephone number is (571) 272-1810. The examiner can normally be reached from 8:30 – 5:00 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Tokar can be reached at (571) 272-1812. The fax phone numbers for the organization where this application or proceeding is assigned are (703-872-9306) for regular communications and (703-872-9306) for After Final communications.

LVN

01/03/2005


JEAN JEANGLAUDE
PRIMARY EXAMINER